

SYSTEM, METHOD, AND APPARATUS FOR REDUCING CODE PHASE SEARCH SPACE

ABSTRACT OF THE DISCLOSURE

- A GPS communication system including a server and a client, each
- 5 including a GPS receiver, for reducing the code phase search space of the GPS receiver of the client. The communication system includes a transmitter for transmitting timing information from the server to the client to help the client locate a first satellite, and a receiver for using timing differences between the satellites to synchronize and locate other satellites. The code phase search
 - 10 space is reduced by reducing the number of phase hypotheses that must be calculated to establish communication between the server and the client.